

Attorney Docket No. 1806.1005

# 的 STATES PATENT AND TRADEMARK OFFICE

| In re Patent Application of:  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Akira NAKABAYASHI et al.  |  |  |  |  |  |  |
| Application   | on No.: 10   | 7/516,348  | Group Art Unit: Unassigned   |  |  |  |
| Filed: De   | ecember 1  | , 2004   | Examiner: Unassigned   |  |  |  |
| For: P  | HOTOCAT  | TALYST COMPOSITION   |  |  |  |  |
|   |  | INFORMATION DISCLO   | SURE STATEMENT   |  |  |  |
| PO Box 1  | Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450     |  |  |  |  |  |
| Sir:  |  |  |  |  |  |  |
| In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application. |  |  |  |  |  |  |
| 1. E  | Enclosures accompanying this Information Disclosure Statement are: |  |  |  |  |  |
|   | 1a. ⊠ 1b. ⊠ 1c. ⊠ 1d. □ 1e. ⊠ 1f. □                                | Application publications. English language copy of a co or a PCT International Search English language translation ( attached to non-English language Form PTO-1449. | complete, Abstract or relevant portion(s)) age publications as indicated on the attached References (ATTACHMENT 1(e), hereto) for of non-English publications. |  |  |  |
|   | 1g. 🗌  |  | ocuments (ATTACHMENT 1(g), hereto).  |  |  |  |
| 2.  | This Infor   | mation Disclosure Statement is<br>(Check either Item 2   |  |  |  |  |
|   | 2a. 🔲  | •  | ng date of a national application;   |  |  |  |

Within three months of the date of entry of the national stage as set forth in

Before the mailing of a first Office Action after the filing of a Request for

Before the mailing of a first Office Action on the merits; or

§ 1.491 in an international application.

Continued Examination under § 1.114.

2c. 🛛

2d. 🗌

Serial No.: 10/516,348

| 3. |  | This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND |  |  |  |  |  |
|----|--|---|--|--|--|--|--|
|    |  |   | (Check either Item 3a or 3b; Item 3b to be checked if<br>any reference known for more than 3 months)   |  |  |  |  |
|    |  | 3a.   | The § 1.97(e) Statement in Item 5 below is applicable; OR The \$180.00 fee set forth in 37 CFR § 1.17(p) is:  enclosed.  |  |  |  |  |
|    |  |   | to be charged to Deposit Account No. 19-3935.  |  |  |  |  |
| 4. |  | This Infor specified 4a.   4b.  | mation Disclosure Statement is filed under 37 CFR § 1.97(d) after the period in paragraph 3 above, but on or before payment of the Issue Fee, AND The § 1.97(e) Statement in Item 5 below is applicable; AND The \$180.00 fee set forth in 37 CFR § 1.17(p) is:  ———————————————————————————————————   |  |  |  |  |
|    |  |   | to be charged to Deposit Account No. 19-3935.  |  |  |  |  |
| 5. |  | Statemen  | t under § 1.97(e) (applicable if Item 3a or Item 4a is checked)  |  |  |  |  |
|    |  | E   | (Check either Item 5a or 5b)   |  |  |  |  |
|    |  | 5a. 🗍   | In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.  |  |  |  |  |
|    |  | 5b. 🗌   | In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. |  |  |  |  |
| 6. |  | This is a (   | continuation/divisional/continuation-in-part application under 37 CFR §  |  |  |  |  |
|    |  |   | (Check appropriate Items 6a and/or 6b)   |  |  |  |  |
|    |  | 6a. 🗌   | Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR  |  |  |  |  |
|    |  | 6b. 🗌   | § 1.98(d). Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.   |  |  |  |  |

Serial No.: 10/516,348

| 7.  |           | This is a Request for Continued Examination under 37 CFR § 1.114. |                  |   |  |  |  |
|-----|-----------|---|------------------|---|--|--|--|
|     |           |   |                  | (Check either Item 7a or 7b)  |  |  |  |
|     |           | 7a.<br>7b.  | =                | The Issue Fee has not been paid. A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A Request for Continued Examination under 37 CFR § 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.114(a), respectively.  |  |  |  |
| 8.  |           | This  | is a S           | Supplemental Information Disclosure Statement.  |  |  |  |
|     | _         |   |                  | (Check either Item 8a or 8b)  |  |  |  |
|     |           | 8a.   |                  | This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on |  |  |  |
|     |           | 8b.   |                  | This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed   |  |  |  |
| 9.  |           |   |                  | nce with 37 CFR § 1.98, a concise explanation of what is presently to be the relevance of each non-English language publication is:   |  |  |  |
|     |           |   |                  | (Check appropriate Items 9a, 9b, 9c and/or 9d)  |  |  |  |
|     |           | 9a.   |                  | satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)   |  |  |  |
|     |           | 9b.<br>9c.  |                  | set forth in the application. satisfied for the non-English language publication(s) indicated on the attached Form PTO-1449 as having an English language translation   |  |  |  |
|     |           | 9d.   |                  | (complete or relevant portion(s)) attached thereto. enclosed as Attachment 1(e), hereto.  |  |  |  |
| 10. | be<br>tha | e, ma<br>an se  | iterial<br>earch | in is made that the information cited in this Statement is, or is considered to to patentability nor a representation that a search has been made (other report(s) from a counterpart foreign application or a PCT International ort, if submitted herewith). 37 CFR §§ 1.97(g) and (h).  |  |  |  |

Serial No.: 10/516,348

The Commissioner is authorized to credit any overpayment or charge any additional fee 11. required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 19-3935.

Respectfully submitted,

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#### MEMORANDOM ON INFORMATION DISCLOSURE STATEMENT

- AD (1) Unexamined Japanese Patent Application Laid-Open Specification No. Sho 60-044053
- AE (2) Unexamined Japanese Patent Application Laid-Open Specification No. Sho 60-118236
- AA (3) U.S. Patent No. 5,595,813
- AB (4) U.S. Patent No. 5,547,823
- AF (5) Unexamined Japanese Patent Application Laid-Open Specification No. Hei 9-100437
- AG (6) Unexamined Japanese Patent Application Laid-Open Specification No. Hei 9-314052
- AH (7) EP No. 1 136 125 A1
- (8) Unexamined Japanese Patent Application Laid-Open Specification No. Hei 9-227831
- AJ (9) Unexamined Japanese Patent Application Laid-Open Specification No. 2001-64583
- AK (10) Unexamined Japanese Patent Application Laid-Open Specification No. Sho 62-260717
- AC (11) U.S. Patent No. 6,013,372
- AL (12) Unexamined Japanese Patent Application Laid-Open Specification No. Hei 8-103488
- AM (13) Unexamined Japanese Patent Application Laid-Open Specification No. 2002-273233
- AN (14) Unexamined Japanese Patent Application Laid-Open Specifi-

cation No. 2002-282700

A0 (15) Unexamined Japanese Patent Application Laid-Open Specification No. 2003-275597

- 2 -

Reference (1) is described at page 4, line 24 to page 5, line 1 of the present specification.

Reference (2) is described at page 5, lines 22-23 of the present specification.

Reference (3) is described at page 6, lines 17-18 of the present invention.

Reference (4) is described at page 7, lines 8-9 of the present invention.

Reference (5) is described at page 7, lines 7-9 of the present invention.

Reference (6) is described at page 7, line 25 to page 8, line 1 of the present invention.

Reference (7) is described at page 9, line 21-22 of the present invention.

Reference (8) is described at page 10, line 21-22 of the present invention.

Reference (9) is described at page 11, line 20-21 of the present invention.

References (6) and (7) were cited in the International Search Report issued in connection with PCT/JP02/05432. An English translation of the International Search Report is attached hereto.

References (1), (2), (5), (6), (8) to (10) and (12) to (15) are Japanese patent documents, and English abstracts of references (1), (2), (5), (6), (8) to (10) and (12) to (15) are

attached thereto.

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FORM PTO-1449

S.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.

FIRST NAMED INVENTOR

Sheet 1 of 1 APPLICATION NO.

1806.1005

10/516,348

# INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Akira NAKABAYASHI et al.

FILING DATE

GROUP ART UNIT

December 1, 2004

Unassigned

### **U.S. PATENT DOCUMENTS**

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE     | NAME            | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|----|-----------------|----------|-----------------|-------|---------------|----------------|
|                      | AA | 5,595,813       | 01/21/97 | Ogawa et al.    |       |               |                |
|                      | AB | 5,547,823       | 08/20/96 | Murasawa et al. |       |               |                |
|                      | AC | 6,013,372       | 01/11/00 | Hayakawa et al. |       |               |                |

### **FOREIGN PATENT DOCUMENTS**

|    | DOCUMENT<br>NO. | DATE     | COUNTRY | TRANSLATION<br>YES NO | ABSTRACT |
|----|-----------------|----------|---------|-----------------------|----------|
| AD | 60-044053       | 03/08/85 | Japan   | X                     |          |
| AE | 60-118236       | 06/25/85 | Japan   | . X                   |          |
| AF | 09-100437       | 04/15/97 | Japan   | X                     |          |
| AG | 09-314052       | 12/09/97 | Japan   | X                     |          |
| AH | 1 136 125       | 09/26/01 | Europe  |                       |          |
| Al | 09-227831       | 09/02/97 | Japan   | ×                     |          |
| AJ | 2001-064583     | 03/13/01 | Japan   | X                     |          |
| AK | 62-260717       | 11/13/87 | Japan   | X                     |          |
| AL | 08-103488       | 04/23/96 | Japan   | X                     |          |
| АМ | 2002-273233     | 09/24/02 | Japan   | X                     |          |
| AN | 2002-282700     | 10/02/02 | Japan   | X                     |          |
| AO | 2003-275597     | 09/30/03 | Japan   | X                     |          |

| EXAMINER   | DATE CONSIDERED  |  |  |
|------------|--|--|--|
|            |  |  |  |
| +EVANAINED | idered, whether or not citation is in conformance with MPEP 609. Draw line through |  |  |

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citation if not in conformance and not considered. Include copy of this form with next communication to applicant.